Amendment dated February 18, 2009 Reply to Office Action of December 24, 2008

AMENDMENTS TO THE CLAIMS

1. (Original) An authenticating device comprising:

an authentication processing unit to perform an authentication process with an

authenticated device using an authentication key; and

an update key generating unit to generate a new authentication key when the

authenticated device does not hold an authentication key to be used in the authentication process

by the authentication processing unit, and to generate a new authentication key for updating an

authentication key to be used in the authentication process by the authentication processing unit when the authenticated device holds the authentication key but the authentication process with

the authenticated device by the authentication processing unit fails.

wherein the authentication processing unit performs the authentication process with the

authenticated device again, using the new authentication key generated by the update key

generating unit.

(Original) The authenticating device of claim 1, further comprising a receiving 2

unit to receive a prescribed algorithm identifier and a prescribed encryption key identifier from

the authenticated device.

wherein the update key generating unit generates the new authentication key based on the

prescribed algorithm identifier and the prescribed encryption key identifier received by the

receiving unit,

the authenticating device, further comprising a transmitting unit to transmit the new

authentication key generated by the update key generating unit to the authenticated device,

wherein the authentication processing unit performs the authentication process with the

authenticated device again, using the new authentication key transmitted by the transmitting unit.

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## 3 (Currently Amended) An authenticated device comprising:

a memory unit to store a prescribed algorithm identifier and a prescribed encryption key identifier;

an authentication processing unit to perform an authentication process with an authenticated authenticating device using an authentication key;

a transmitting unit to transmit the prescribed algorithm identifier and the prescribed encryption key identifier stored by the memory unit, to the authenticating device when the authenticated device holds the authentication key but the authentication process with the authenticating device by the authentication processing unit fails the authentication process with the authenticating device by the authentication processing unit fails; and

a receiving unit to receive from the authenticating device a new authentication key based on the prescribed algorithm identifier and the prescribed encryption key identifier transmitted by the transmitting unit,

wherein the authentication processing unit performs the authentication process with the authenticating device again, using the new authentication key received by the receiving unit.

## 4 (Original) The authenticated device of claim 3,

wherein the receiving unit receives prescribed information from the authenticating device when the authentication process with the authenticating device by the authentication processing unit fails, and

wherein the transmitting unit transmits the prescribed algorithm identifier and the prescribed encryption key identifier stored by the memory unit, when the prescribed information has been received by the receiving unit.

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5. (Cancelled)

6. (Original) A key updating method comprising:

transmitting prescribed information from an authenticating device to an authenticated

device when an authentication process fails, the authentication process being performed between

the authenticated device which stores a prescribed algorithm identifier and a prescribed

encryption key identifier, and the authenticating device, using an authentication key:

receiving the prescribed information transmitted from the authenticating device, at the

authenticated device;

transmitting from the authenticated device to the authenticating device, the prescribed algorithm identifier and the prescribed encryption key identifier stored, after the prescribed

information is received:

receiving the prescribed algorithm identifier and the prescribed encryption key identifier

transmitted at the authenticating device;

generating a new authentication key, based on the prescribed algorithm identifier and the

prescribed encryption key identifier received, at the authenticating device:

transmitting the new authentication key generated to the authenticated device:

receiving the new authentication key transmitted at the authenticated device;

executing a key update using the new authentication key received, as an update key to

perform the authentication process between the authenticated device and the authenticating

device:

generating and transmitting an update confirmation data to the authenticating device; and

receiving and checking the update confirmation data.

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Docket No.: 2565-0296PUS1

 (New) A computer readable storage medium having stored thereon computer executable program for performing an authentication process, the computer program when executed causes a processor to execute steps of:

transmitting prescribed information from an authenticating device to an authenticated device when an authentication process fails, the authentication process being performed between the authenticated device which stores a prescribed algorithm identifier and a prescribed encryption key identifier, and the authenticating device, using an authentication key;

receiving the prescribed information transmitted from the authenticating device, at the authenticated device:

transmitting from the authenticated device to the authenticating device, the prescribed algorithm identifier and the prescribed encryption key identifier stored, after the prescribed information is received:

receiving the prescribed algorithm identifier and the prescribed encryption key identifier transmitted at the authenticating device;

generating a new authentication key, based on the prescribed algorithm identifier and the prescribed encryption key identifier received, at the authenticating device;

transmitting the new authentication key generated to the authenticated device;

receiving the new authentication key transmitted at the authenticated device;

executing a key update using the new authentication key received, as an update key to perform the authentication process between the authenticated device and the authenticating device;

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generating and transmitting an update confirmation data to the authenticating device; and receiving and checking the update confirmation data.